

Comparisons of Job Characteristics

Focus Occupation: [Diagnostic Medical Sonographers \(29-2032\)](#)

Associated Occupation: [Radiologic Technologists \(29-2034\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 97

Focus Occupation: Diagnostic Medical Sonographers (29-2032)

Associated Occupation: Radiologic Technologists (29-2034)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Customer and Personal Service	11.3	18.4	17.5	0	Current knowledge level may be sufficient
Medicine and Dentistry	3.7	13.7	14.6	0	Current knowledge level may be sufficient
Physics	4.3	12.4	14.0	>	Current knowledge level is likely sufficient
Psychology	6.4	11.2	10.0	<	Expanded education and/or training may be required
Biology	3.7	8.6	7.2	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Diagnostic Medical Sonographers (29-2032)

Associated Occupation: Radiologic Technologists (29-2034)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Service Orientation	7.9	10.2	10.0	0	Current skill level may be sufficient
Operation and Control	5.4	9.5	9.5	0	Current skill level may be sufficient
Operation Monitoring	6.6	9.0	10.0	>	Skill level is likely sufficient
Science	4.5	8.2	10.3	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Diagnostic Medical Sonographers (29-2032)

Associated Occupation: Radiologic Technologists (29-2034)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Arm-Hand Steadiness	6.8	10.5	10.3	0	Current ability level may be sufficient
Control Precision	6.6	10.3	11.2	0	Current ability level may be sufficient
Multilimb Coordination	6.0	9.8	7.6	<	Some improvement in abilities may be required
Static Strength	5.0	8.2	6.0	<<	Extensive improvement in abilities may be required
Extent Flexibility	4.8	8.0	8.8	>	Current ability level is likely sufficient
Response Orientation	4.0	7.7	6.2	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 98

Focus Occupation: Diagnostic Medical Sonographers (29-2032)

Associated Occupation: Radiologic Technologists (29-2034)

Work Activities	Exclusivity of Activity
Analyze medical data	57
Collect clinical data	56
Communicate technical information	4
Explain testing procedures to patient	87
Follow dental or medical office procedures	68
Follow infectious materials procedures	52
Follow patient observation procedures	71
Identify body response variations	57
Inventory medical supplies or instruments	67
Lift or transport ill or injured patients	69
Make presentations on health or medical issues	50
Observe patient condition	48
Operate ultrasound equipment	99
Prepare patients for tests, therapy, or treatments	70
Record medical history or data	68
Take vital signs	56
Understand technical operating, service or repair manuals	6
Use clinical sterilizing technique	71
Use emergency medical procedures	64
Use hazardous materials information	35
Use interpersonal communication techniques	10

Use knowledge of medical terminology	40
Use medical diagnostic equipment	87
Use quality assurance techniques	61
Use sanitation practices in health care settings	48

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 78

Focus Occupation: Diagnostic Medical Sonographers (29-2032)

Associated Occupation: Radiologic Technologists (29-2034)

Tools and Technologies	Exclusivity
Blood pressure units and related products	11
Computers	1
Data management and query software	1
Industry specific software	1
Injection and aspiration needles and accessories	25
Intravenous and arterial tubing and administration sets and related products	22
Medical diagnostic x ray products	26
Medical radiological imaging information and archiving products	43
Medical radiological positioning aids	47
Medical radiological shielding and protection products	31
Medical ultrasound and doppler and echo imaging products	19
Specimen collection and transport containers and supplies	14

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.